

## CLAIM(S):

1. An overhead door assembly for a building having an opening to be closed by the door, the door assembly having a vertical closed position and a horizontal open position and the door assembly having dimensions that are substantially equal to the building opening, comprising:

a frame, having a horizontal support member and first and second vertical members fixedly mounted to either end of said horizontal member, said vertical members being fixedly mounted to the ground;

a one-piece door member having a thickness including top and bottom horizontal ends and first and second vertical sides, said top horizontal end of said door member being pivotally mounted to said horizontal member of said frame and said door member being movable from a closed position to an open position about said pivot point; and

a hydraulic cylinder having a first and second end, said first end pivotally mounted on a portion of either one of said first and second vertical members, and said second end pivotally mounted to said door member, said hydraulic cylinder having a ram movably disposed within said hydraulic cylinder communicating an opening and closing force to said door member.

2. An overhead door assembly according to claim 1, further comprising a truss fixedly mounted to said bottom horizontal end of said door, said truss supporting said bottom horizontal end.

09873481.060401

3. An overhead door assembly according to claim 1, further comprising a resilient weather-resistant seal disposed along said bottom horizontal end of said door member and fixedly mounted thereon, sealing gaps between said bottom horizontal end of said door member and the ground.
4. An overhead door assembly according to claim 1, further comprising connecting means for connecting hydraulic hoses from an alternative hydraulic power source.
5. An overhead door assembly according to claim 1, wherein a cycle time for opening or closing said door member is between 28 to 32 seconds.
6. An overhead door assembly according to claim 1, wherein the cycle time for opening or closing said door member is not greater than about 32 seconds.
7. An overhead door assembly according to claim 1, wherein said door member closes flush with the building surface.
8. An overhead door assembly according to claim 1, further comprising a resilient seal for sealing the perimeter of said door member and providing a weather tight seal around all four sides of said door member.
9. An overhead door assembly according to claim 1, further comprising a three position hydraulic valve for controlling the direction of said door member.
10. An overhead door assembly according to claim 9, further comprising check valve locks for locking said door member in a desired position.

09873481-060401

11. An overhead door assembly according to claim 1, wherein said hydraulic cylinder further comprises a mechanical stop disposed within said cylinder.

12. An overhead door assembly according to claim 1, wherein said frame is anchored to a concrete footing.

13. An overhead door assembly according to claim 12, wherein said frame is anchored to said concrete footing with anchor bolts fastened to said concrete footing.

14. An overhead door assembly according to claim 1, wherein said frame structure supports a substantial portion of the load of said door member.

15. An overhead door for a building having an opening to be closed by the door, the door having a vertical closed position and a horizontal open position and the door having dimensions that are substantially equal to the building opening, comprising:

a one-piece door member having a thickness including top and bottom horizontal ends and first and second vertical sides;  
means for fixedly mounting said top horizontal end of said door member to support a structure; and  
means for mounting to said door member a mechanism adapted and configured to open and close said door member.

16. An overhead door for a building according to claim 15, further comprising support means, supporting said bottom horizontal end of said door member.

004090" T84E/850

17. An overhead door for a building according to claim 16, wherein said support means supporting said bottom horizontal end of said door member includes a truss.

18. An overhead door for a building according to claim 15, further comprising a seal for sealing said bottom horizontal end of said door member against the ground.

19. An overhead door for a building according to claim 18, wherein said sealing means, sealing said bottom horizontal end of said door member against the ground includes a resilient weather-resistant seal disposed along said bottom horizontal end of said door member and fixedly mounted thereon, sealing gaps between said bottom horizontal end of said door member and the ground.

20. An overhead door for a building according to claim 15, wherein said mounting means, fixedly mounting said top horizontal end of said door member to a support structure includes a plurality of pairs of hinges fastened with a plurality of bolts.

21. An overhead door for a building according to claim 15, further comprising closing means, closing said door flush with the building opening.

22. An overhead door for a building according to claim 21, wherein said closing means, closing said door flush with the building opening includes a angled members that overlap said building opening.

23. An overhead door for a building according to claim 21, wherein said closing means further comprises a seal.

109873431-060401

24. An overhead door for a building according to claim 23, wherein said seal includes a compressed foam seal.
25. A frame for an overhead door, comprising:  
a horizontal support member;  
first and second vertical support members fixedly mounted to either end of said horizontal member; and  
ground anchoring means disposed on said first and second vertical members, anchoring said first and second vertical members to the ground.
26. A frame for an overhead door according to claim 25, wherein said ground anchoring means include steel plates with a hole defined thereon, said steel plates anchoring said vertical support members to anchor bolts fastened to any one of the ground, a concrete footing and a paved surface.
27. An overhead door having a vertical closed position and a horizontal open position provided in a building having an opening to be closed by the door, the overhead door having dimensions that are substantially equal to the building opening, comprising:  
a one-piece door member having a thickness including top and bottom horizontal ends and first and second vertical sides;  
means for fixedly mounting said top horizontal end of said door member to a support structure; and  
means for mounting to said door member a mechanism adapted and configured to open and close said door member.

T01090 "TSE42850

28. An overhead door provided in a building according to claim 27, further comprising support means, supporting said bottom horizontal end of said door member.
29. An overhead door provided in a building according to claim 28, wherein said support means, supporting said bottom horizontal end of said door member includes a truss.
30. An overhead door provided in a building according to claim 27, further comprising sealing means, sealing said bottom horizontal end of said door member against the ground.
31. An overhead door provided in a building according to claim 29, wherein said sealing means, sealing said bottom horizontal end of said door member against the ground includes a resilient weather-resistant seal disposed along said bottom horizontal end of said door member and fixedly mounted thereon, sealing gaps between said bottom horizontal end of said door member and the ground.
32. An overhead door for a building according to claim 27, wherein said mounting means, fixedly mounting said top horizontal end of said door member to a support structure includes a plurality of pairs of hinges fastened together with a plurality of bolts.
33. An overhead door for a building according to claim 27, wherein said mounting means, mounting said door member to a mechanism adapted and configured to open and close said door member includes a hydraulic cylinder.

09373431-060401

34. A frame for an overhead door provided in a building having an opening to be closed the door, said frame having dimensions that are substantially equal to the building opening, comprising:

a horizontal support member;  
first and second vertical members fixedly mounted to either end of  
said horizontal member; and  
ground anchoring means disposed on said first and second vertical  
members, anchoring said frame to the ground.

35. A frame for an overhead door according to claim 34, wherein said ground anchoring means include steel plates with a hole defined thereon, said steel plates anchoring said vertical support members to anchor bolts fastened to any one of the ground, a concrete footing and a paved surface.

2011

09873481 060401